

PATENT ABSTRACTS OF JAPAN

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(71)Applicant : TOKICO LTD

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(72)Inventor : AKAMI YUSUKE

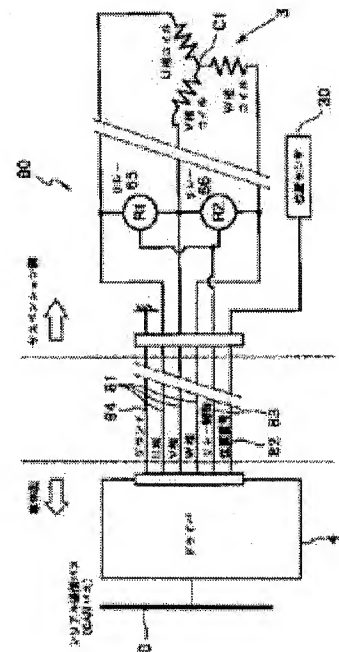
TSUCHIYA SHOICHI

(54) ELECTROMAGNETIC SUSPENSION APPARATUS

(57)Abstract:

PROBLEM TO BE SOLVED: To provide an electromagnetic suspension apparatus capable of developing a damping force with a motor, when it is impossible to control the electromagnetic suspension apparatus due to cable disconnection or the like (when there is no control).

SOLUTION: When a disconnection of a power cable 81 is detected, a relay control signal is turned off to close a first and second relays 65, 66, and short- circuit a U-phase coil, V-phase coil and W-phase coil via the first and second relays 65, 66. Consequently, when a



suspension unit strokes, the motor 3 arranged in the suspension unit operates as a generator, and the resistance of the magnitude being substantially proportional to a stroke speed, that is the damping force, is developed.